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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/613,782	07/03/2003		Patrizio Mattei	21159	6985
151	7590	12/29/2004		EXAMINER	
		ROCHE INC.	TRUONG, TAMTHOM NGO		
PATENT LAW DEPARTMENT 340 KINGSLAND STREET				ART UNIT	PAPER NUMBER
NUTLEY, N			1624		

DATE MAILED: 12/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u> </u>					
	Application No.	Applicant(s)					
	10/613,782	MATTEI ET AL					
Office Action Summary	Examiner	Art Unit					
	Tamthom N. Truong	1624					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status	·						
1) Responsive to communication(s) filed on	<u>.</u> .						
2a) This action is FINAL . 2b) ⊠ This	action is non-final.						
Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) ☐ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8,11,12 and 14-18 is/are rejected. 7) ☐ Claim(s) 9,10 and 13 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.						
Application Papers							
9) The specification is objected to by the Examine	ef						
10) The drawing(s) filed on is/are: a) acc	The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D						
2) Notice of Draftsperson's Patent Drawing Review (P10-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/26/03 & 1/12/04.	- D	Patent Application (PTO-152)					

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DETAILED ACTION

Claims 1-18 are pending.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 1. Claims 1-7, 11, 12 and 14-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The following reasons apply:
 - a. In claim 1, the definition of R⁴, the moieties of "heterocyclylalkyl" and "heterocyclalkyl which is substituted" appear among substituents of "aryl". However, dependent claims (e.g., claim 6) seems to recite "heterocyclylalkyl", "heterocyclalkyl which is substituted" as R⁴. Likewise, the moiety "cycloalkylalkyl" appears among substituents of "heterocyclyl" while dependent claims seems to recite "cycloalkylalkyl" as R⁴. Therefore, it is unclear if R⁴ also represents "heterocyclylalkyl" and "cycloalkylalkyl", or if those rings are substituents on R⁴.
 - b. Claims 6 and 7 appear to be inconsistent with claim 1 with respect to the definitions of R⁴.
 - c. Claims 2-5, 11, 12 and 14-18 are rejected as being dependent on claim 1 and carrying over the limitation of R⁴.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1-4, 8, 11, 12, 14, 15 and 18 are rejected under 35 U.S.C. 102(a) as being anticipated by **Breu et. al.** (WO 02/20488 A2 cited on IDS). On page 11, Breu et. al. list several quinazoline compounds, two of which (e.g. compounds on lines 13 and 14) read on compounds of the instant formula I with the following substituents:
 - i. A is pyrrolidinyl or piperidinyl;
 - ii. R^1 is $-N(R^5)(R^6)$ wherein R^5 and R^6 together with the N atom to which they are attached form a 6-membered heterocyclic ring such as *pyridine* and *pyrimidine*.
 - iii. R² is an alkyl group (or methyl);
 - iv. R³ is hydrogen;

The disclosed compounds can also treat obesity, and the pharmaceutical composition for such a treatment is taught on page 24. Also, the disclosed compounds can be given with *orlistat* simultaneously, separately or sequentially. Therefore, the composition and method claims 14, 15, and 18 are also anticipated.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- ct. al. (WO'488). Said claims recite a "method of treatment of obesity...comprising administering....about 0.1 mg to 20 mg per kg body weight per day of the compound according to claim 1 and a therapeutically effective amount of from 60 to 720 mg per day of orlistat." As discussed in the rejection above, page 27 of WO'488 reveals that the disclosed quinazoline compounds can be administered with *orlistat*. The reference differs from the claims by not disclosing the dosage of *orlistat*. However, *orlistat* is a commercially available agent with an established dosage. Therefore, it would have been within the level of the skilled clinician to

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administer the claimed compound with *orlistat* at a dosage recited in the instant claims 16 and 17. Thus, at the time of the invention, it would have been obvious to treat obesity according to the instant claims in view of the teaching of Breu et. al.

Claim Objections

4. Claims 9, 10 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claims 9 and 10 recite subgenera of formula (I) wherein R¹ is -NR⁵R⁶ with R⁵ and R⁶ as independent substituents, which is not taught or fairly suggested by Breu et. al. Similarly, claim 13 recites specific compounds of R¹ as OR⁴, or NR⁵R⁶ wherein R⁴, R⁵ and R⁶ are all independent substituents. Said compounds are not taught or fairly suggested by Breu et. al. either.

Reference cited on PTO-892

5. The reference cited on PTO-892 is a US corresponding of WO 92/07844 (cited on IDS). While said reference teaches related compounds, it does not teach a substituent equivalent to R² which is simply an amino. Thus, said reference does not anticipate or render obvious the instant formula (I).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamthom N. Truong whose telephone number is 571-272-0676. The examiner can normally be reached on M-F (10:00-6:30).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O Wilson can be reached on 571-272-0661. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tamthom N. Truong

Examiner Art Unit 1624

12-22-04

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